



Telecommunications - CCNT

CCNT Basic Telecommunications

Basic Telecommunications is an instructor-led course that explores analog and digital concepts and introduces telecommunications basics such as networks, business communications systems, signaling, Internet telephony, and switching.

Course Length: 12 hours

Prerequisites: None

System requirements: Intel486, Windows 95, 98, NT 4.0 & Windows 2000, 32MB RAM, 30MB of free HD space, 2x CD-ROM, IE 5.0 or Netscape 4.06 or later, 28.8kbps modem, video card w/1MB memory, Internet connection and browser for testing.

Related Courseware: Basic Data Communications, Computer-Telephone Integration (CTI) Essentials, Local Area Networks (LANs), Broadband Technologies, Voice over IP (VoIP) Essentials

What's in CCNT Basic Telecommunications?

Basic Telecommunications – is an instructor-led, concept-based course that explores analog and digital concepts.

The CCNT certificate program is a powerful tool for gaining entry-level, interdisciplinary criteria for convergence. This program is job-role neutral, and is essential for individuals in a job role who require a baseline knowledge of convergence disciplines.

CCNT certificate testing is administered online at www.TelecomPREP.com. Upon successfully passing the six module tests, the user earns a CCNT Certificate of Completion from the TIA and can then display the CCNT logo on business cards.

Why do I need Basic Telecommunications?

- CCNT certificate satisfies basic industry knowledge and vocabulary requirements. Building block for advanced vendor specific technology.
- When combined with the remaining CCNT courses, it satisfies the CCNT certificate sponsored by the TIA. This program is recognized as one of the industry standards for network telecommunications.
- Enhances on-the-job training. Provides one of the core essentials for network telecommunication. Applied learning may improve employee job understanding and performance.



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Topics

Lesson 1: Overview

- The Telecommunications Industry
- Terms and Technology
- Regulation and Public Policy
- Technical Platform
- The International Perspective

Lesson 2: Customer Premise Equipment (CPE)

- Station Sets
- Key Systems
- Private Branch Exchange (PBX)
- Centrex – Virtual PBX

Lesson 3: Services

- Introduction
- Service Basics
- Line and Trunk Features
- Dedicated Services
- Service Providers
- Specialized Services

Lesson 4: Analog Concepts

- The Network
- The Voice Signal
- Transmission Variables
- Multiplexing
- FDM

Lesson 5: Digital Concepts

- Digital Signals
- Advantages of Digital Technology
- Digital Transmission
- Pulse Code Modulation
- Digital Voice Transport
- Optical Standards
- Digital Loop Carriers

Lesson 6: Networks

- Telecommunications Networks
- Flexibility of Computer Technology
- Current Network Structure
- The Exchange/Central Office
- Cellular Networks
- Internet Telephony

Lesson 7: Transmission

- A Simple Transmission Network
- What Are the Transmission Media
- Two-Wire Analog Media
- Multicircuit Media and Systems

Lesson 8: Signaling

- Basic Types of Signaling
- Supervisory & Address Signaling
- Start-Dial Signals
- Incoming Call indication
- Call Progress Tone and
- Miscellaneous Signals
- Common Channel Signaling
- Signaling System 7 (SS7)
- Identifying the Signaling Interface

Lesson 9: Switching

- Introduction to Switching
- Analog, Digital, Time-Division and
- Space-Division Switches
- CO Digital Switches
- Optical Signal Switching

Lesson 10: Application Analysis

- Determination of Applications
- Determination of Quantities



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